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NOTICE OF ALLOWANCE AND FEE(S) DUE

20277 7590 02/01/2010
MCDERMOTT WILL & EMERY LLP
600 13TH STREET, N.W.
WASHINGTON. DC 20005-3096

| EXAMINER | HOOVIER, MATTHEW | ART UNIT | PAPER NUMBER | 1791 | DATE MAILED 02/01/2010 |

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,547	09/26/2005	Toshihiro Ooishi	49677-160	6424

TITLE OF INVENTION: METHOD OF MANUFACTURING GLASS PARTICULATE STACKED BODY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE DEE and DURI ICATION DEE (if required). Blocks 1 through 5 should be completed where

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	ORNEY DOCKET NO.	CONFIRMATION NO.
10/511,547	09/26/2005	•	Toshihiro Ooishi			49677-160	6424
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10/511,547 09/26/2005		Toshihiro Ooishi	49677-160 6424		
20277 75	90 02/01/2010		EXAMINER		
MCDERMOTT V	WILL & EMERY LI	HOOVER, MATTHEW			
600 13TH STREE		ART UNIT	PAPER NUMBER		
WASHINGTON, I	OC 20005-3096	1701			

DATE MAILED: 02/01/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 801 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 801 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/511.547 OOISHI ET AL. Notice of Allowability Examiner Art Unit MATTHEW HOOVER 1791 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. X This communication is responsive to applicants arguments and remarks filed 12/18/09 and amended claims filed 12/18/09. 2. The allowed claim(s) is/are 13-42. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) X All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other .

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DETAILED ACTION

The amendment filed 12/18/09 has been entered claims 13-42 have been entered.

Allowable Subject Matter

Claims 13-42 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The invention is a method for manufacturing a glass particle deposited body by arranging a plurality of burners at regular intervals opposed to a starting rod. The burners move in parallel in relation to the rod. The burners move in an outward path and then hit a turnaround point and go back on a homeward path until the reach another turnaround point and continue on an outward path again. The turn back location for the homeward to outward path does not go beyond an initial position to move a turn back location from an outward to homeward path in a certain direction. Once a final position is reached the process goes in reverse until the burners are both back to their original positions. The burners move on the outwards path by the equation (B+1)xA with A being the movement distance at once at a turn back location and B being an integer. They move on the homewards path by the equation (BxA). In the reverse direction they move on the outward path by (B+1)xA and the homewards path by (B+2)xA. The average reciprocating movement distance is D=2x(B+1)xA and is less than double the burner to burner interval. Finally the deposited layers are uniform in the length direction.

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Tobisaka (EP 1065175) teaches a method for manufacturing a glass particle deposited body by arranging a plurality of burners at regular intervals opposed to a starting rod. The burners move in parallel in relation to the rod. The burners move in an outward path and then hit a turnaround point and go back on a homeward path until the reach another turnaround point and continue on an outward path again. Tobisaka does not teach that the burners move by the equations set forth in the claimed application. The burners move by different amounts in the homeward and outward directions on each cycle, with their turn back locations being different as well.

Shimada (US 5958102) teaches a method for manufacturing a glass particle deposited body by arranging a plurality of burners at regular intervals opposed to a starting rod. The burners move in parallel in relation to the rod. The burners move in an outward path and then hit a turnaround point and go back on a homeward path until the reach another turnaround point and continue on an outward path again. Shimada does not teach that the burners move by the equations set forth in the claimed application. The burners move by different amounts in the homeward and outward directions on each cycle, with their turn back locations being different as well.

Kase (US 2002/0050154) teaches a method for manufacturing a glass particle deposited body by arranging a plurality of burners at regular intervals opposed to a starting rod. The burners move in parallel in relation to the rod. The burners move in an

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outward path and then hit a turnaround point and go back on a homeward path until the reach another turnaround point and continue on an outward path again. Kase does not teach that the burners move by the equations set forth in the claimed application. The burners move by different amounts in the homeward and outward directions on each cycle, with their turn back locations being different as well.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW HOOVER whose telephone number is (571)270-7663. The examiner can normally be reached on Mon-Thurs 7am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Katarzyna I. Wyrozebski can be reached on (571) 272-1127. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/MH/

Examiner AU 1791

/KHANH NGUYEN/

Primary Examiner, Art Unit 1791